



SPYWOLF

Security Audit Report



Completed on
March 12, 2023

@SPYWOLFNETWORK



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SPYWOLF.CO





OVERVIEW

This audit has been prepared for **MetaGamers** to review the main aspects of the project to help investors make an informative decision during their research process.

You will find a summarized review of the following key points:

- ✓ Contract's source code
- ✓ Owners' wallets
- ✓ Tokenomics
- ✓ Team transparency and goals
- ✓ Website's age, code, security and UX
- ✓ Whitepaper and roadmap
- ✓ Social media & online presence

“

The results of this audit are purely based on the team's evaluation and does not guarantee nor reflect the projects outcome and goal

– SPYWOLF Team –

”





TABLE OF CONTENTS

| | |
|--------------------------------|-----------|
| Project Description | 01 |
| Contract Information | 02 |
| Current Stats | 03 |
| Vulnerability Check | 04 |
| Threat Levels | 05 |
| Found Threats | 06-A/06-D |
| Good Practices | 07 |
| Tokenomics | 08 |
| Team Information | 09 |
| Website Analysis | 10 |
| Social Media & Online Presence | 11 |
| About SPYWOLF | 12 |
| Disclaimer | 13 |



Meta Gamers



PROJECT DESCRIPTION

According to their website:

MetaGamers will be an open world in the Metaverse based on the latest technology which merges together, web3.0, blockchain, VR and AR. They are building an open world using Unreal Engine 5 with different subject areas.

Release Date: Presale starts in March, 2023

Category: Gaming



CONTRACT INFO

Token Name
MetaGamers

Symbol
METAGAMERS

Contract Address

0x77bA91F8cb502f75939790473D6681B2E9127756

Network

Binance Smart Chain

Language

Solidity

Deployment Date

March 09, 2022

Verified?

Yes

Total Supply

10,000,000,000,000

Status

Not launched

TAXES

Buy Tax

5%

Sell Tax

5%

*Taxes can be changed in future



Our Contract Review Process

The contract review process pays special attention to the following:

- ✓ Testing the smart contracts against both common and uncommon vulnerabilities
- ✓ Assessing the codebase to ensure compliance with current best practices and industry standards.
- ✓ Ensuring contract logic meets the specifications and intentions of the client.
- ✓ Cross referencing contract structure and implementation against similar smart contracts produced by industry leaders.
- ✓ Thorough line-by-line manual review of the entire codebase by industry experts.

Blockchain security tools used:

- OpenZeppelin
- Mythril
- Solidity Compiler
- Hardhat



TOKEN TRANSFERS STATS

| | |
|-------------------------|---------------------------|
| Transfer Count | 1 |
| Uniq Senders | 1 |
| Uniq Receivers | 1 |
| Total Amount | 10000000000000 METAGAMERS |
| Median Transfer Amount | 10000000000000 METAGAMERS |
| Average Transfer Amount | 10000000000000 METAGAMERS |
| First transfer date | 2023-03-09 |
| Last transfer date | 2023-03-09 |
| Days token transferred | 1 |

SMART CONTRACT STATS

| | |
|-----------------------|--------------------------------------------------------------------|
| Calls Count | 1 |
| External calls | 1 |
| Internal calls | 0 |
| Transactions count | 1 |
| Uniq Callers | 1 |
| Days contract called | 1 |
| Last transaction time | 2023-03-09 18:25:23 UTC |
| Created | 2023-03-09 18:25:23 UTC |
| Create TX | 0x44fc3f484507cc6cadbabe1e526d1d017a8070626aee2a6f62c8fcb76ed8d62a |
| Creator | 0xa8e245515d46b6457e82cae272c1f78afe86eelc |



VULNERABILITY CHECK

| | |
|----------------------------------------------------------------|--------|
| Design Logic | Passed |
| Compiler warnings. | Passed |
| Private user data leaks | Passed |
| Timestamp dependence | Passed |
| Integer overflow and underflow | Passed |
| Race conditions and reentrancy. Cross-function race conditions | Passed |
| Possible delays in data delivery | Passed |
| Oracle calls | Passed |
| Front running | Passed |
| DoS with Revert | Passed |
| DoS with block gas limit | Passed |
| Methods execution permissions | Passed |
| Economy model | Passed |
| Impact of the exchange rate on the logic | Passed |
| Malicious Event log | Passed |
| Scoping and declarations | Passed |
| Uninitialized storage pointers | Passed |
| Arithmetic accuracy | Passed |
| Cross-function race conditions | Passed |
| Safe Zeppelin module | Passed |
| Fallback function security | Passed |



THREAT LEVELS

When performing smart contract audits, our specialists look for known vulnerabilities as well as logical and access control issues within the code. The exploitation of these issues by malicious actors may cause serious financial damage to projects that failed to get an audit in time. We categorize these vulnerabilities by the following levels:

High Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Medium Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Low Risk

Issues on this level are minor details and warning that can remain unfixed.

Informational

Information level is to offer suggestions for improvement of efficacy or security for features with a risk free factor.



FOUND THREATS

⚠ High Risk

Owner can set buy/sell fees without limit up to 100%.

This might lead to inability to sell.

When fees are above 0, there will be certain amount of tokens that will be deducted from every transaction that users make.

Deducted amount will be as much as the fees % from total amount that user had bought, sold and/or transferred.

```
function setTaxFeePercent(uint256 taxFee) external onlyOwner() {
    _taxFee = taxFee;
}

function setDevelopmentFeePercent(uint256 developmentFee) external onlyOwner() {
    _developmentFee = developmentFee;
}

function setLiquidityFeePercent(uint256 liquidityFee) external onlyOwner() {
    _liquidityFee = liquidityFee;
}
```

- Recommendation:
 - Considered as good tax deduction practice is buy and sell fees combined not to exceed 25%.



FOUND THREATS

⚠ High Risk

Owner can set max transaction limit without limitation. If set to 0 or very low number, it will become impossible to sell. When such restrictions are in place, the users can transfer token amounts up to said restriction value.

```
function setMaxTxPercent(uint256 maxTxPercent) external onlyOwner() {  
    _maxTxAmount = _tTotal.mul(maxTxPercent).div(  
        10**3  
    );  
}
```

- Recommendation:
 - Considered as good practice is that transaction amount restrictions not to be below 0.1% of total supply per transaction.



FOUND THREATS

Medium Risk

No medium risk-level threats found in this contract.

Low Risk

No low risk-level threats found in this contract.

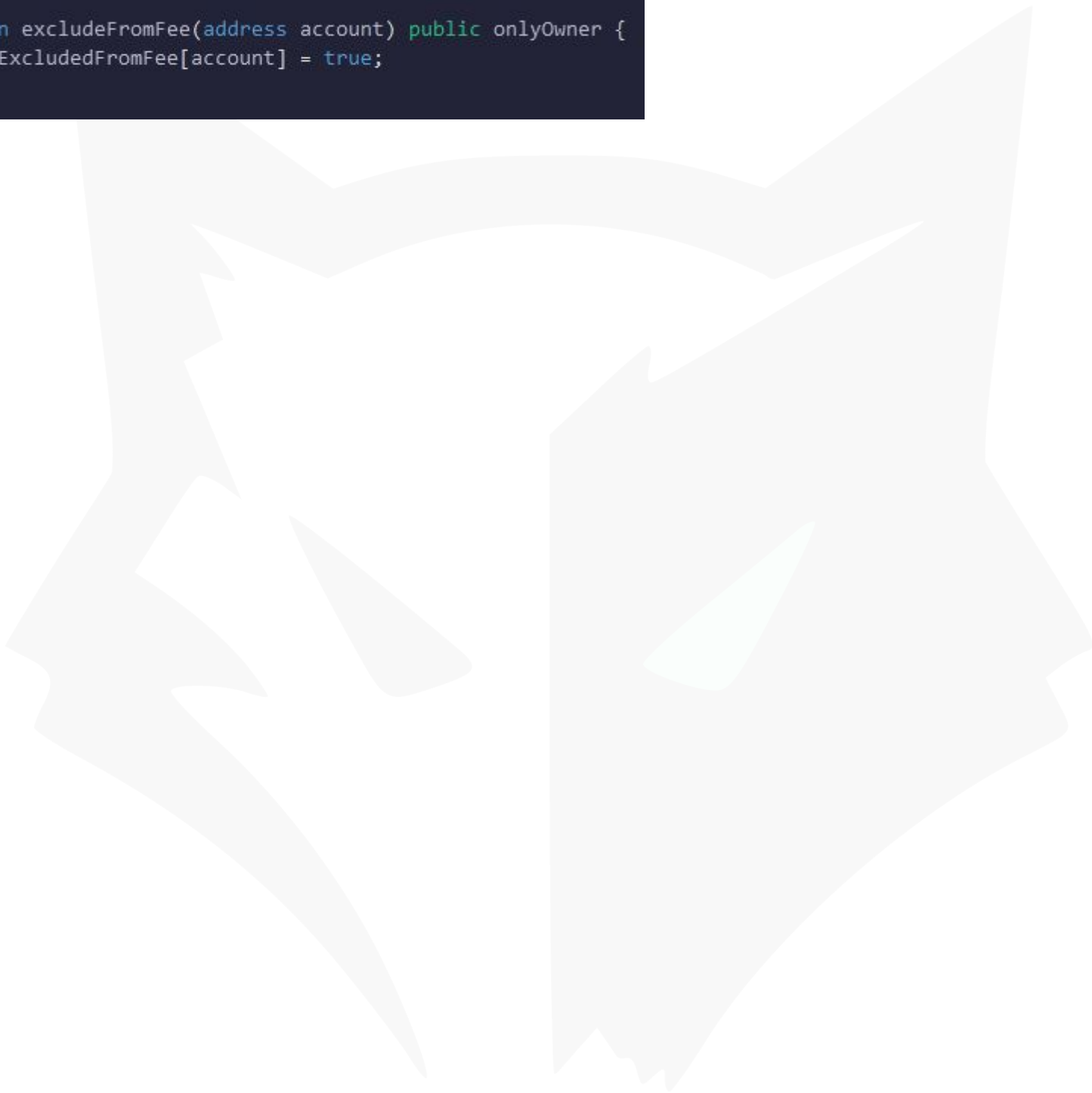


Informational

Owner can exclude address from fees.

Addresses excluded from fees won't be subject to tax deduction from the buys/sells/transfers that they make.

```
function excludeFromFee(address account) public onlyOwner {  
    _isExcludedFromFee[account] = true;  
}
```





RECOMMENDATIONS FOR

GOOD PRACTICES

1

Consider fundamental tradeoffs

2

Be attentive to blockchain properties

3

Ensure careful rollouts

4

Keep contracts simple

5

Stay up to date and track development

MetaGamers

GOOD PRACTICES FOUND

- ✓ The owner cannot mint new tokens after deployment
- ✓ The smart contract utilizes "SafeMath" to prevent overflows



There is no information about the initial tokens distribution in project's website and/or whitepaper and socials.

TOKENOMICS



THE TEAM

! The team is anonymous

KYC INFORMATION

! No KYC

We recommend the team to get a KYC in order to ensure trust and transparency within the community.





WEBSITE

Website URL

<https://www.metagamers.at/>

Domain Registry

<https://www.wix.com>

Domain Expiration

March 10, 2024

Technical SEO Test

Passed

Security Test

Passed. SSL certificate present

Design

Single page design,
appropriate color scheme.

Content

There is no explanatory
information about what the
project is all about.

No grammar mistakes
found .

Whitepaper

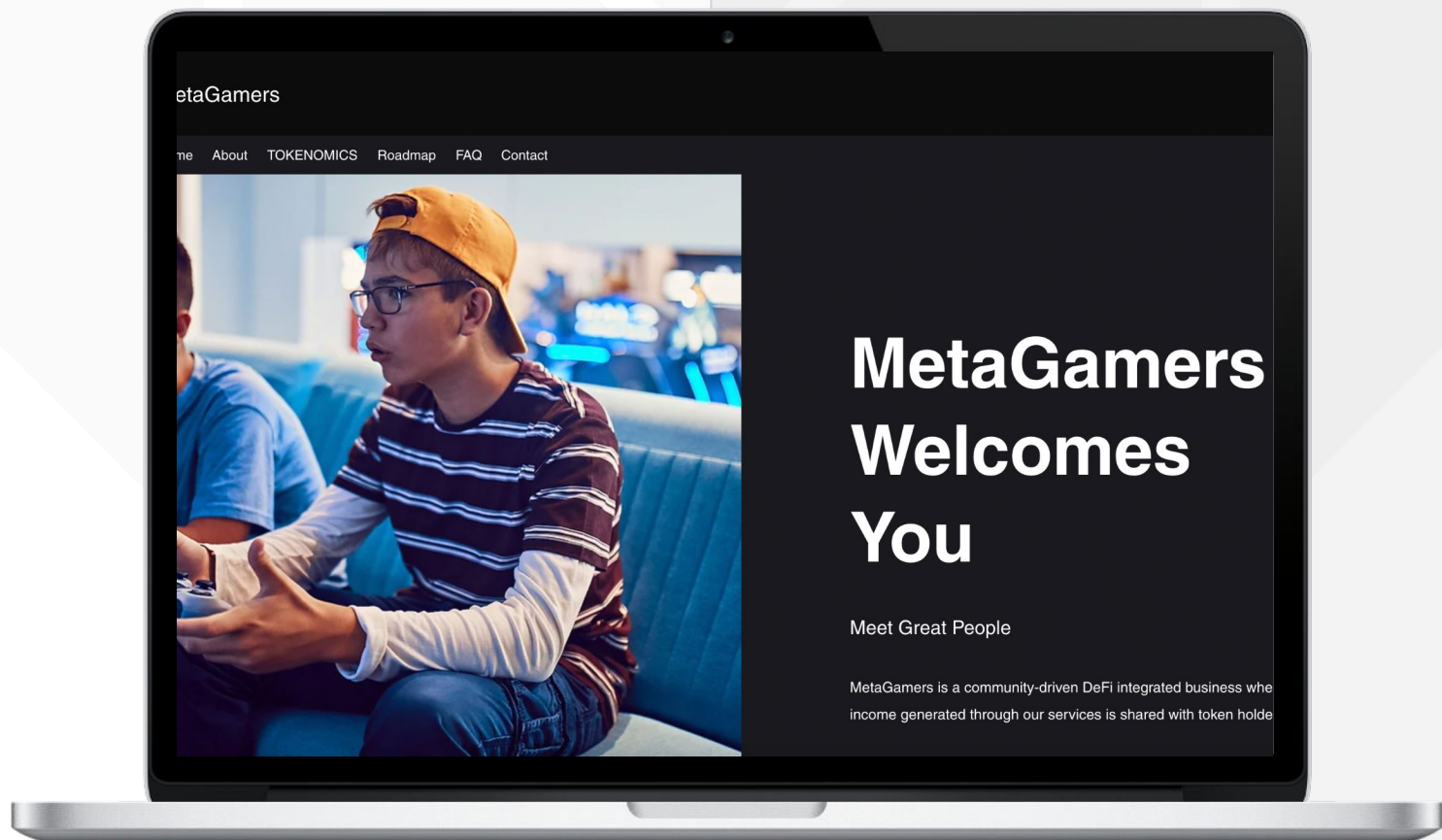
No

Roadmap

Yes, goals set without time
frames.

Mobile-friendly?

Yes



metagamers.at

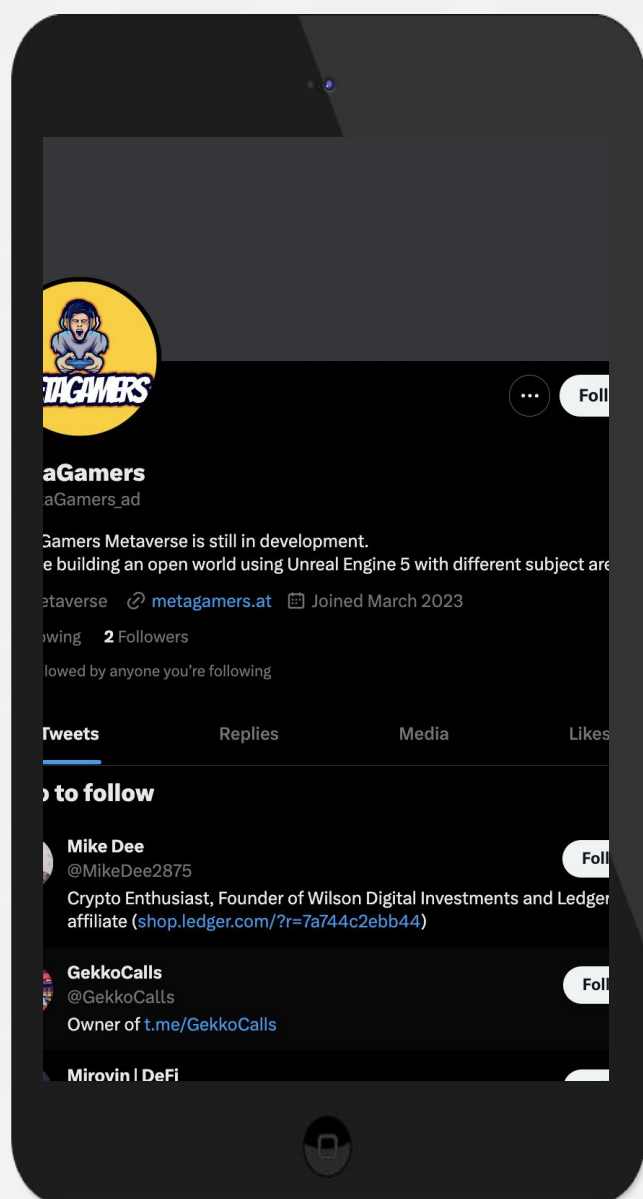


SOCIAL MEDIA & ONLINE PRESENCE



ANALYSIS

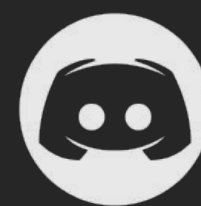
Project's social media pages are new and currently not active



Twitter

@MetaGamers_ad

- 2 followers
- No posts



Discord

- Not available



Telegram

<https://t.me/+g8eLJ4AJSqJlMjM0>

- 5 members
- No active users



Medium

Medium link here

- Not available



SPYWOLF

CRYPTO SECURITY

Audits | KYCs | dApps
Contract Development

ABOUT US

We are a growing crypto security agency offering audits, KYCs and consulting services for some of the top names in the crypto industry.

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- ✓ MORE THAN 500 SCAMS EXPOSED
- ✓ MILLIONS SAVED IN POTENTIAL FRAUD
- ✓ PARTNERSHIPS WITH TOP LAUNCHPADS, INFLUENCERS AND CRYPTO PROJECTS
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To hire us, reach out to
contact@spywolf.co or
t.me/joe_SpyWolf

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Disclaimer

This report shows findings based on our limited project analysis, following good industry practice from the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, overall social media and website presence and team transparency details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report.

While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the disclaimer below – please make sure to read it in full.

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No applications were reviewed for security. No product code has been reviewed.